

# **DOCUMENTATION**

## **Abstract**

The Student Grade Sheet Management System is developed to simplify and automate the process of managing student academic records. The system efficiently stores student details, subject marks, and grades, ensuring accurate calculation of totals, percentages, and results. By replacing the traditional manual method, it reduces paperwork, saves time, and minimizes human errors. The system provides quick access to student performance data and helps teachers and administrators manage results effectively. It is a reliable, user-friendly solution that improves accuracy and transparency in academic evaluation.

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## **Introduction**

In educational institutions, managing student grades manually is a difficult and time-consuming process. Errors in calculation and record maintenance can affect student performance evaluation. The Student Grade Sheet Management System replaces the traditional manual system with a digital platform that stores student information, subject marks, grades, and results securely. This system helps teachers and administrators save time and improve efficiency.

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## **Software Requirements**

Operating System: Windows / Linux

Programming Language: C / Java / Python

Database: MySQL / SQLite

IDE/Compiler: Turbo C / VS Code / Eclipse

Web Browser (if web-based): Google Chrome / Microsoft Edge

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## Hardware Requirements

Processor: Intel i3 or higher

RAM: Minimum 4 GB

Hard Disk: 250 GB or above

Input Devices: Keyboard, Mouse

Output Device: Monitor

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## Code

```
#include <stdio.h>
```

```
struct student {
```

```
    int roll;
```

```
    char name[30];
```

```
    int m1, m2, m3;
```

```
    int total;
```

```
    float percent;
```

```
    char grade;
```

```
    char result[5];
```

```
};
```

```
char gradeCalc(float p) {  
    if (p >= 90) return 'A';  
    else if (p >= 75) return 'B';  
    else if (p >= 60) return 'C';  
    else if (p >= 40) return 'D';  
    else return 'F';  
}
```

```
void sortByRoll(struct student s[], int n) {  
    struct student temp;  
    for (int i = 0; i < n - 1; i++) {  
        for (int j = i + 1; j < n; j++) {  
            if (s[i].roll > s[j].roll) {  
                temp = s[i];  
                s[i] = s[j];  
                s[j] = temp;  
            }  
        }  
    }  
}
```

```
int main() {
```

```
struct student s[50];

int n;

printf("Enter number of students: ");

scanf("%d", &n);

for (int i = 0; i < n; i++) {

    printf("\nStudent %d Details\n", i + 1);

    printf("Roll No: ");

    scanf("%d", &s[i].roll);

    printf("Name: ");

    scanf("%s", s[i].name);

    printf("Marks (3 subjects): ");

    scanf("%d %d %d", &s[i].m1, &s[i].m2, &s[i].m3);

    s[i].total = s[i].m1 + s[i].m2 + s[i].m3;

    s[i].percent = s[i].total / 3.0;

    s[i].grade = gradeCalc(s[i].percent);

    if (s[i].grade == 'F')
```

```
    sprintf(s[i].result, "FAIL");

else

    sprintf(s[i].result, "PASS");

}

sortByRoll(s, n);

printf("\n-----\n");

printf("Roll Name    Total Percent  Grade  Result\n");
printf("-----\n");

for (int i = 0; i < n; i++) {

    printf("%-5d %-9s %-6d %-8.2f%% %-7c %s\n",
           s[i].roll, s[i].name, s[i].total,
           s[i].percent, s[i].grade, s[i].result);

}

printf("-----\n");

return 0;
}
```

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## Result

Enter number of students: 4

Student 1 Details

Roll No: 1

Name: anagha

Marks (3 subjects): 98

93

95

Student 2 Details

Roll No: 2

Name: prasanna

Marks (3 subjects): 96

94

97

Student 3 Details

Roll No: 3

Name: neeraj

Marks (3 subjects): 93

95

98

Student 4 Details

Roll No: 4

Name: sandeep

Marks (3 subjects): 92

94

90

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| Roll | Name | Total | Percent | Grade | Result |
|------|------|-------|---------|-------|--------|
|------|------|-------|---------|-------|--------|

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|   |          |     |       |     |      |
|---|----------|-----|-------|-----|------|
| 1 | anagha   | 286 | 95.33 | % A | PASS |
| 2 | prasanna | 287 | 95.67 | % A | PASS |
| 3 | neeraj   | 286 | 95.33 | % A | PASS |
| 4 | sandeep  | 276 | 92.00 | % A | PASS |

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[Process completed - press Enter]

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## Conclusion

The Student Grade Sheet Management System provides an efficient and reliable way to manage student academic records. It reduces manual work, minimizes errors in grade calculation, and saves time for teachers and administrators. The system ensures accurate storage and quick access to student performance data. Overall, it improves efficiency, accuracy, and transparency in academic result management.

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